



PHOTOVOLTAIC STRING INVERTERS



Generate



Measure



Control



Record



Analyze

DESCRIPTION


Rishabh, a leader in industrial sector with vast experience and knowhow, presents the new range of PV inverters RADIUS-UNO. The UNO range of inverters conforms to the most advanced international standards and meets the requirements of the residential solar plant installations.

The higher energy yields, long term reliability, plant monitoring and high level professional service are the corner-stones of the RADIUS range of inverters.



150%
DC OVERLADING

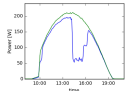
600V
System Voltage


Higher Yield 98.5%


Indoor & Outdoor Installation


50°C
Full Power without Derating


Natural Ventilation
Minimizes Breakdown


PV string Analysis & Comparison


Intuitive New User Interface


Type III Surge Protection Devices


Integrated Datalogger for fault analysis


Optimize Your Cost
Choose between 1MPPT or 2MPPT model

Generate Measure Control Record Analyze



CHOOSING THE INVERTER - TECHNICAL DATA

RADIUS - UNO															
			0.85kW-1M	1kW-1M	1.5kW-1M	2kW-1M	2.5kW-1M	3kW-1M	3.6kW-1M	4.2kW-1M	4.6kW-1/2M	5kW-1/2M	5.5kW-1/2M	6kW-1/2M	6.5kW-1/2M
Input data	Maximum DC voltage	V _{DC max} [V]	550								600				
	MPPT Operating Range	[V]	50V-550V												
	Start up voltage/Nominal Voltage	[V]	50V/360V												
	Max. Recommended PV Power (balanced input)	[Wp]	1700	2000	3000	4000	3750	4500	5400	6000	6900	7500	8250	9000	9750
	MPPT number	No. MPPT	1	1	1	1	1	1	1	1/2	1/2	1/2	1/2	1/2	1/2
	Number of strings per each MPPT	No.	1	1	1	1	1	1	1	1/1	1/1	1/1	1/1	1/1	1/1
	Maxm DC current per MPPT	I _{max}	20	20	20	20	20	20	20	20/20	20/20	20/20	20/20	20/20	20/20
	Maxm Short Circuit Current	I _{sc} [A]	22	22	22	22	22	22	22	22/22	22/22	22/22	22/22	22/22	22/22
Output data	Rated AC Power/ Maxm AC Power	P _{NOM/MAX AC} [kW/kVA]	850/935	1000/1100	1500/1650	2000/2200	2500/2750	3000/3300	3600/3960	4000/4400	4600/5060	5000/5500	5500/6050	6000/6600	6500/7150
	AC rated current/Max current	I _{AC Nom/Imax} [A]	3.7/4.1	4.3/4.7	6.5/7.1	8.6/9.5	10.8/11.9	13/14.3	15.6/17.2	17.3/19.1	20/22	21.7/23.9	23.9/26.3	26/28.6	28.2/31
	AC voltage	V _{AC} [V]	$\frac{\{(220V_{LN})/(230V_{LN})\}}{(240V_{LN})}$ (output voltage Range (184...277V _{LN})) ¹⁾												
	Rated AC frequency	f _{AC} [Hz]	50/60Hz (Output frequency range 45/565 Hz) ¹⁾												
	Grid connection		TN-C/TN-S/TN-C-S/TT												
	Current THD	THDi [%]	≤ 3 ²⁾												
	Power factor (settable)	cosphi	+/- 0.8												
	Maximum efficiency	[%]	97.7	97.7	97.7	97.7	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
European efficiency (Euro ETA)	[%]	97.2	97.2	97.2	97.2	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	
Efficiency	Interface protections(grid monitor)		Integrated												
	Anti-islanding		Integrated (Where required by local regulations)												
	Insulation control		Integrated												
	Residual current monitoring		Integrated												
	Reverse DC polarity protection		Integrated												
	AC/DC overvoltage		Type 3 AC SPD & DC SPD (SPD failure detection and indication through alarm)												
	DC injection control		Integrated												
	DC circuit breaker		Circuit breaker under load/optinal												
Protections	DC fuses & string failure detection		15A fuses on both poles of each string/optinal												
	Night Consumption(Standby loss)		<1W.												

¹⁾ The output voltage and frequency interval may vary according to the network connection standard

²⁾ For THDv < 1% and Pout > 60% of Prated

Note: In case of a SPD failure the inverter will stop the power generation, until the failed SPD is replaced to protect the inverter from damages due to overvoltage/surge.



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Interface	User Interface	LED indicators Display,LCD/OLED Display/optional and local monitoring via mobile App by BT connection (only for firmware updates and downloading of historical data)/optional											
	Communications	RS485/WIFI/Ethernet/Bluetooth/ Cloud Server Communication											
	Inputs/Outputs	Analog Input, digital output / optional											
Cooling	Natural Convection												
Environmental Data	Temperature Range	-25 °C.... +60 °C(No derating upto 50°C) ³⁾											
	Noise Emission(Typical)	<35dB(A)											
	Vibration	1G											
	IP protection degree	IP 66											
	Environmental conditions	4K4H											
	Maximum permissible value for relative humidity, non condensing	0 %RH ~ 100 %RH											
	Pollution degree	EN 60721-3-4, free from direct solar radiation To avoid increase in the internal temperature of the inverter and cause a reduction of the output power (derating)											
Altitude	Up to 3000m												
Dimension & Weight	Dimensions	WxHxD: 336 x 256 x 156mm						WxHxD: 377 x 286 x 250mm					
	Weight(Kg) ⁴⁾	6Kg						15/18Kg					
Standards	Approvals	IEC 60068-2-1/2/14/30, IEC 61727, IEC 62109-1/2, IEC 62116, IEC 61683, IEC 60529, IEC 610006-3/2, CE, VDE-0126 .											

³⁾ Refer user manual for power derating versus temperature curves

⁴⁾ Weight without packaging and mounting bracket

NOTE: The OND files for all the above models are available in PVSystem software.



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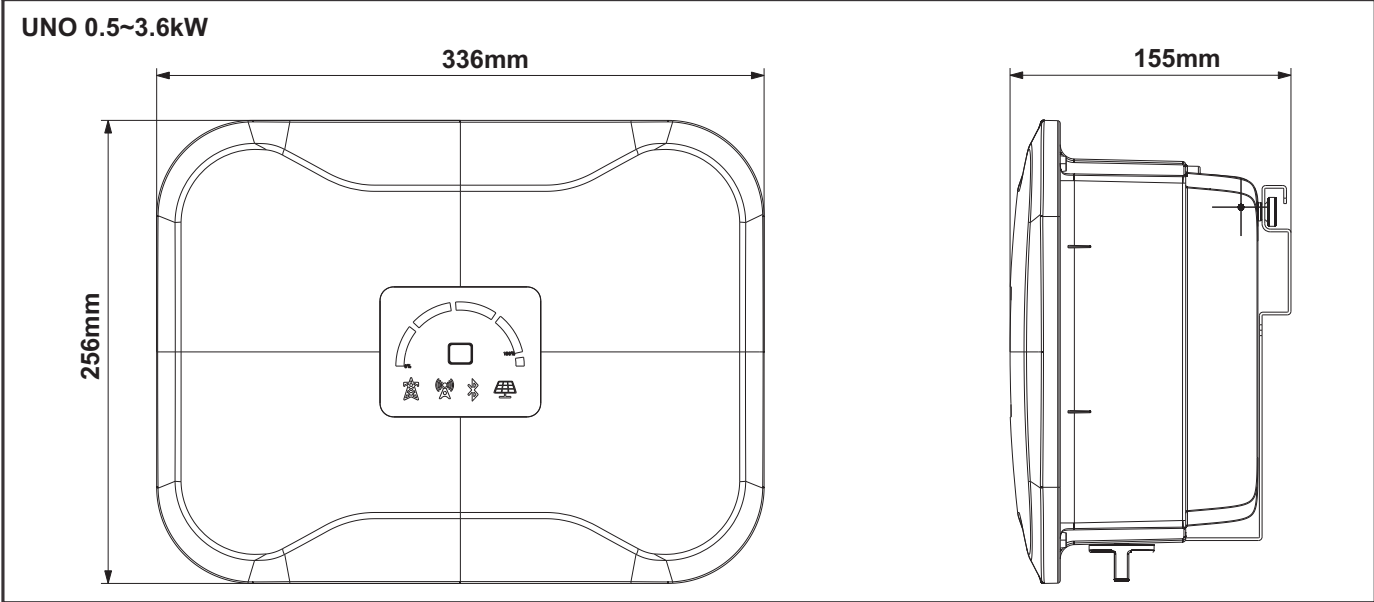


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RADIUS - UNO MODEL DIMENSION

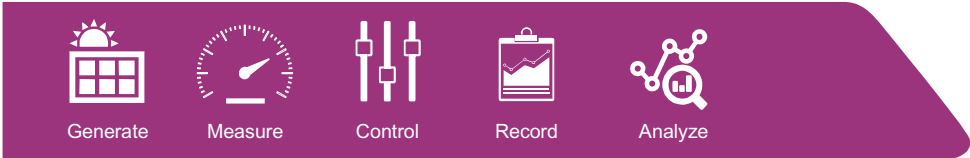


CODE DESCRIPTION

UNO-XXXk-XM T X B X X X X

Reserved	X = Reserved
Reserved	X = Reserved
Reserved	X = Reserved
Remote Monitoring system	G = Integrated GSM Dongle (Marcloud Web portal) W = Wifi Dongle (SOLARMAN Web portal)
Bluetooth and LED Indication	B = Bluetooth included
DC fuses and String Analysis	F = included
Transformer:	TL = Transformer Less
MPPT numbers	1 = 1 MPPT 2 = 2 MPPT
Inverter power in kW:	500 = 500W/550 VA 3600 = 3600W/3960 VA 1000 = 1000W/1100 VA 4000 = 4000W/4400 VA 1500 = 1500W/1650 VA 4600 = 4600W/5060 VA 2000 = 2000W/2200 VA 5000 = 5000W/ 5500 VA 2500 = 2500W/2750 VA 5500 = 5500W/6050 VA 3000 = 3000W/3300 VA 6000 = 6000W/6600 VA 6500 = 6500W/7150 VA
Photovoltaic string inverter, NEO series	

NOTE: Final order number must be confirmed by our sales team before placing the order.





SOLAR ON-GRID INVERTERS
from



RISHABH



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These specifications may be changed without notice.

RV0.X1-01/25